

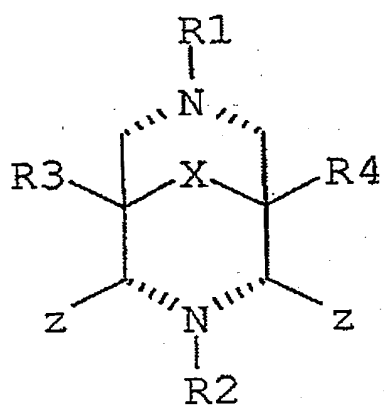
### Amendments to the Claims:

The listing of claims will replace all prior versions and listings of claims in the application:

### Listing of Claims:

Claim 1 (Original) A bleaching composition comprising:

a) a monomer ligand, L, or transition metal catalyst thereof of a ligand having the formula (I):



(I)

wherein R1 and R2 may be selected from the group consisting of:

a group containing a heteroatom capable of coordinating to a transition metal;

a -Cl-C22-optionally substituted-alkyl;

a-C6-C10-aryl;

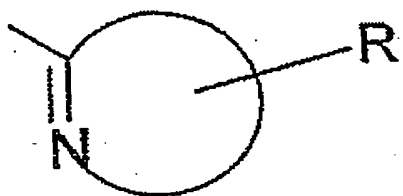
a-Cl-C4-alkyl-C6-C10-aryl; and,

wherein at least one of R1 and R2 is a non-aromatic hydrocarbon group, the non-aromatic hydrocarbon group being a C8-C22-alkyl chain;

R3 and R4 are independently selected from: hydrogen, C1-C4- alkyl, phenyl, electron withdrawing groups and reduced products and derivatives thereof;

X is selected from: C=O, a ketal derivative of C=O, a thioether derivative of C=O, and  $-\text{C}(\text{R}_6)_2-$  wherein y takes a value 0 or 1; each R6 is independently selected from hydrogen, hydroxyl, O-C1-C24-alkyl, O-benzyl, O-(C=O)-C1-C24-alkyl, and C1-C24-alkyl;

z groups are same monocyclic or dicyclic heteroaromatic N- donor groups of the form:



wherein R is-CO-C4- alkyl, and,

b) the balance carriers and adjunct ingredients, together with at least 2% wt/wt of a peroxygen bleach or source thereof.

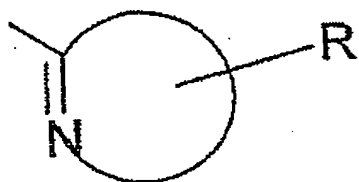
Claim 2 (Original) A bleaching composition according to claim 1, wherein the group containing a heteroatom capable of coordinating to a transition metal is selected from the group consisting of: an optionally substituted tertiary amine of the form -C2-C4-alkyl-NR7R8, in which R7 and R8 are independently selected from the group consisting of straight chain, branched or cyclo C1-C12 alkyl, benzyl, the -C2-C4-alkyl- of the -C2-C4-alkyl-NR7R8 may be substituted by 1 to 4 Cl-C2-alkyl, or may form part of a C3 to C6 alkyl ring, and in which R7 and R8 may together form a saturated ring containing one or more other heteroatoms;

a heterocycloalkyl: selected from the group consisting of: pyrrolinyl, pyrrolidinyl, morpholinyl, piperidinyl, piperazinyl, hexamethylene imine, 1, 4-piperazinyl, tetrahydrothiophenyl, tetrahydrofuranyl, tetrahydropyranyl, and oxazolidinyl, wherein the heterocycloalkyl may be connected to the ligand via any atom in the ring of the selected heterocycloalkyl;

a-Cl-C6-alkyl-heterocycloalkyl, wherein the heterocycloalkyl of the -Cl-C6-alkyl-heterocycloalkyl is selected from the group consisting of: piperidinyl, piperidine, 1,4-piperazine, tetrahydrothiophene, tetrahydrofuran, pyrrolidine, and tetrahydropyran, wherein the heterocycloalkyl may be connected to the -Cl-C6-alkyl via any atom in the ring of the selected heterocycloalkyl; and,

a-Cl-C6-alkyl-heteroaryl, wherein the heteroaryl of the -Cl-C6-alkyl-heteroaryl is selected from the group consisting of: pyridinyl, pyrimidinyl, pyrazinyl, triazolyl, pyridazinyl, 1,3,5-triazinyl, quinolinyl, isoquinolinyl, quinoxalinyl, imidazolyl, pyrazolyl, benzimidazolyl, thiazolyl, oxazolidinyl, pyrrolyl, carbazolyl, indolyl, and isoindolyl, wherein the heteroaryl may be connected to the -Cl-C6-alkyl via any atom in the ring of the selected heteroaryl and the selected heteroaryl is optionally substituted by a group selected from the group consisting of a -Cl-C4-alkyl, -CO-C6-alkyl-phenol, -CO-C6-alkyl-thiophenol, -C2-C4-alkyl-thiol, -C2-C4-alkyl-thioether, -C2-C4-alkyl-alcohol, -C2-C4-alkyl-amine, and a-C2-C4-alkylcarboxylate.

Claim 3 (Currently Amended) A bleaching composition according to claim 1 or 2, wherein z groups are same heteroaromatic groups of the form:



selected from the group consisting of:

pyridinyl; quinolinyl, pyrazolyl, imidazolyl ; benzimidazolyl ; and thiazolyl, and wherein R is -CO-C4-alkyl.

Claim 4 (Original) A bleaching composition according to claim 3, wherein z is pyridinyl optionally substituted by -CO-C4-alkyl.

Claim 5 (Currently Amended) A bleaching composition according to ~~any one of claims 1 to 4~~claim 1, wherein at least one of R1 and R2 is a non-aromatic hydrocarbon group, the non-aromatic hydrocarbon group being a C10-C20 alkyl chain.

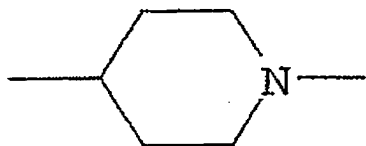
Claim 6 (Currently Amended) A bleaching composition according ~~any preceding claim~~claim 1, wherein one of R1 and R2 is selected from the group consisting of: Me, CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, and pyridin-2-ylmethyl, wherein the pyridin-2-ylmethyl is optionally substituted by C1-C4- alkyl.

Claim 7 (Original) A bleaching composition according to claim 6, wherein one of R1 and R2 is a pyridin-2-ylmethyl that is optionally substituted by C1-C4-alkyl.

Claim 8 (Currently Amended) A bleaching composition according to ~~any one of claims 1 to 6~~claim 1, wherein one of R1 and R2 is selected from the group consisting of:  
an optionally substituted tertiary amine of the form -C<sub>2</sub>-C<sub>4</sub>alkyl-NR<sub>7</sub>R<sub>8</sub>, in which R<sub>7</sub> and R<sub>8</sub> are independently selected from the group consisting of straight chain, branched or cyclo C<sub>1</sub>-C<sub>12</sub> alkyl, -CH<sub>2</sub>-C<sub>6</sub>H<sub>5</sub>, wherein the C<sub>6</sub>H<sub>5</sub> is optionally substituted by -C1-C4-alkyl or -O-C1-C4-alkyl, and pyridin-2-ylmethyl wherein the pyridine is optionally substituted by C1-C4-alkyl, the -C<sub>2</sub>-C<sub>4</sub>alkyl- of the -C<sub>2</sub>-C<sub>4</sub>alkyl-NR<sub>7</sub>R<sub>8</sub> may be substituted by 1 to 4 C1-C2-alkyl, or may form part of a C<sub>3</sub> to C<sub>6</sub> alkyl ring, and in which R<sub>7</sub> and R<sub>8</sub> may together form a saturated ring containing one or more other heteroatoms.

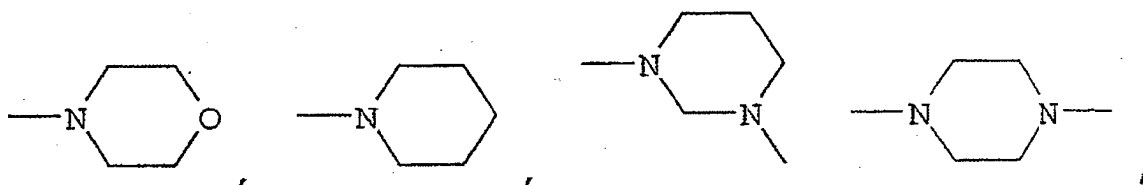
Claim 9 (Original) A bleaching composition according to claim 8, wherein the optionally substituted tertiary amine of the form -C<sub>3</sub>-alkyl-NR<sub>7</sub>R<sub>8</sub>.

Claim 10 (Original) A bleaching composition according to claim 9, wherein the -C<sub>3</sub>-alkyl-NR<sub>7</sub>R<sub>8</sub> is

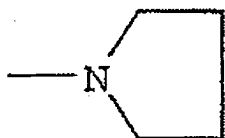


Claim 11 (Original) A bleaching composition according to claim 8, wherein the optionally substituted tertiary amine of the form -C2-alkyl-NR<sub>7</sub>R<sub>8</sub>.

Claim 12 (Original) A bleaching composition according to claim 8, wherein -NR<sub>7</sub>R<sub>8</sub> is selected from group consisting of: -NMe<sub>2</sub>, -NEt<sub>2</sub>, -N(*i*-Pr)<sub>2</sub>,



and



Claim 13 (Currently Amended) A bleaching composition according to any preceding claim claim 1, wherein R<sub>3</sub> and R<sub>4</sub> are selected from the group consisting of: -C(O)O-Cl-C<sub>24</sub>-alkyl, -C(O)-O-Cl-C<sub>24</sub>-aryl-, CH<sub>2</sub>O-C(O)Cl-C<sub>20</sub>-alkyl, benzyl ester, phenyl, benzyl, CN, hydrogen, methyl, and C<sub>1</sub>-C<sub>4</sub>-OR wherein R is selected from the group consisting of H, Cl-C<sub>24</sub>-alkyl or C(O)-C<sub>1</sub>-C<sub>24</sub>- alkyl.

Claim 14 (Original) A bleaching composition according to claim 13, wherein R3 and R4 are selected from the group consisting of -CH<sub>2</sub>OH, -C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub> and -C(O)O-CI-C<sub>6</sub>-alkyl.

Claim 15 (Original) A bleaching composition according to claim 14, wherein R3 and R4 are selected from the group consisting of: -C(O)-O-CH<sub>3</sub>, -C(O)-O-CH<sub>2</sub>CH<sub>3</sub>, -C(O)-O-CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub> and CH<sub>2</sub>OH.

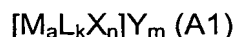
Claim 16 (Currently Amended) A bleaching composition according to ~~any preceding claim~~claim 1, wherein: R3 = R4.

Claim 17 (Currently Amended) A bleaching composition according to ~~any preceding claim~~claim 1, wherein X selected from the group consisting of: C=O, CH<sub>2</sub>, C(OH)<sub>2</sub>, *syn*-CHOR and *anti*-CHOR, wherein R is H, C1-C<sub>24</sub>-alkyl or C(O)-C1-C<sub>24</sub>-alkyl.

Claim 18 (Original) A bleaching composition according to claim 17, wherein X is C=O or C(OH)<sub>2</sub>.

Claim 19 (Original) A bleaching composition according to claim 18, wherein X is C=O.

Claim 20 (Currently Amended) A bleaching composition according to ~~claims 1 to 19~~claim 1, wherein the complex is of the general formula (A1):



in which:

M represents a metal selected from Mn(II)-(III)-(IV)-(V), Cu(I)-(II)-(III), Fe(II)-(III)-(IV)-(V), Co(I)-(II)-(III), Ti(II)-(III)-(IV), V(II)-(III)-(IV)-(V), Mo(II)-(III)-(IV)-(V)-(VI) and W(IV)-(V)-(VI) ;

X represents a coordinating species selected from any mono, bi or tri charged anions and any neutral molecules able to coordinate the metal in a mono, bi or tridentate manner ;

Y represents any non-coordinated counterion;

a represents an integer from 1 to 10;

k represents an integer from 1 to 10;

n represents an integer from 0 to 10;

m represents zero or an integer from 1 to 20; and

L represents a ligand as defined in claims 1 to 19, or its protonated or deprotonated analogue.

Claim 21 (Original) A bleaching composition according to claim 20, wherein M represents a metal selected from Fe(II)-(III)-(IV)-(V).

Claim 22 (Original) A bleaching composition according to claim 21, wherein M represents a metal selected from Fe (II) and Fe (III).

Claim 23 (Original) A bleaching composition according to claim 22, wherein the ligand is present in the form selected from the group consisting of  $[\text{FeLCI}]\text{Cl}$ ;  $[\text{FeL}(\text{H}_2\text{O})](\text{PF}_6)_2$ ;  $[\text{FeLCI}]\text{PF}_6$  and  $[\text{FeL}(\text{H}_2\text{O})](\text{BF}_4)_2$ .